WHAT IS CLAIMED IS:

1. A method for producing an iron oxide coating on a glass article, comprising:

providing a heated glass substrate having a surface on which the coating is to be deposited;

directing ferrocene and an oxidant toward and along the surface to be coated; and reacting the ferrocene and the oxidant at or near the surface of the glass substrate to form an iron oxide coating.

- 2. The method according to claim 1 further comprising providing an inert carrier gas with the ferrocene and oxidant.
 - 3. The method according to claim 1 wherein the oxidant is oxygen gas.
- 4. The method according to claim 1 further comprising cooling the coated glass article to ambient temperature.
- 5. The method according to claim 2, wherein the inert carrier gas comprises at least one of helium and nitrogen.

- 6. The method according to claim 1 wherein the iron oxide layer is deposited at a rate of greater than or equal to about 200 Å/sec.
- 7. The method according to claim 2, wherein the gas phase ferrocene concentration is in the range of about 0.1 to about 5.0%.
- 8. The method according to claim 2, wherein the gas phase ferrocene concentration is in the range of about 0.3 to about 3.0%.
- 9. The method according to claim 2, wherein the gas phase ferrocene concentration is in the range of about 0.6 to about 2.5%.
- 10. The method according to claim 2, wherein the gas phase oxidant concentration is about 1 to about 50%.
- 11. The method according to claim 2, wherein the gas phase oxidant concentration is about 3 to about 40%.
- 12. The method according to claim 2, wherein the gas phase oxidant concentration is about 5 to about 35%.

- 13. The method according to claim 1, wherein the deposited iron oxide coating as a thickness between about 300 and about 700 Å
- 14. The method according to claim 2, further comprising dissolving the ferrocene in a solvent.
- 15. The method according to claim 1, wherein the method occurs in an on-line float glass production process.
- 16. A method of utilizing ferrocene in a chemical vapor deposition process to form an iron oxide layer on a substrate.
- 17. The method according to claim 16 comprising depositing an iron oxide layer on the substrate at a rate of greater than or equal to about 200 Å/sec.
- 18. The method according to claim 16, wherein the iron oxide layer has a thickness between about 300 and about 700 Å.
- 19. The method according to claim 16, wherein the deposited iron oxide layer has a thickness between about 400 and about 650 Å.

- 20. The method according to claim 16, wherein the deposited iron oxide layer has a thickness between about 500 and about 625 Å.
 - 21. A coated glass article comprising:

a glass substrate; and

an iron oxide coating deposited thereon, the iron oxide coating comprising primarily iron oxide in the form Fe₂O₃; wherein

the coated glass article has an a* value between about -5 and about 10, and a b* value between about 10 and about 40, for both transmitted and reflected light.

- 22. The coated glass article according to claim 21 wherein the thickness of the iron oxide coating is between about 300 and about 700 Å.
- 23. The coated glass article according to claim 21 wherein the thickness of the iron oxide coating is between about 400 and about 650 Å.
- 24. The coated glass article according to claim 21 wherein the thickness of the iron oxide coating is between about 500 and about 625 Å.

- 25. The coated glass article according to claim 21 wherein the a* value is between about -1 and about 8, and the b* value is between about 18 and about 40, for both transmitted and reflected light.
 - 26. A coated glass article produced according to the method of claim 1.